

CHAINS FOR ASPHALT PRODUCTION



Linking you to EXCELLENCE since 1926

JOHN KING

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JOHN KING & COMPANY



Climax Works 1930's

Chain Assembly 1960's

New Climax Works 2000's

Company History and Qualifications

The John King Company was established in Leeds, England in 1926. Early success was achieved in the manufacture of mechanical handling equipment for the rapid mechanisation of the coal industry. In these early days conveyor chain was generally of cast link construction. The Company therefore has unrivalled experience in the production of highest quality cast link chains in ductile irons and steel under the "Climax Quality Brand". JOHN KING are undoubtedly the world leaders in this range of conveying chains.

Although cast link chains remain an important part of the JOHN KING programme, the company has progressively expanded the product range to encompass chains of other constructions and manufacturing techniques including Welded steel chains, engineered steel chains, forged fork link chains and Engineering plastic chains.

Today JOHN KING offer the widest range of conveyor chains of any manufacturer which makes them unique in being able to offer an infinite number of chain types in a variety of materials and constructions for a multiplicity of industry mechanical handling applications.

In recent years it has been JOHN KING's strategy to develop the Company into a global business. This has seen the establishment, in addition to the main factory in England, distribution Companies in North and South America, Africa, South East Asia and Central Europe. Our objective is to provide best service in supply of high quality chain and sprockets Worldwide.

All products are manufactured within the dictates of the Company's quality management according to ISO 9000 establishing consistent and high quality products and ensuring performance reliability and extended service life.

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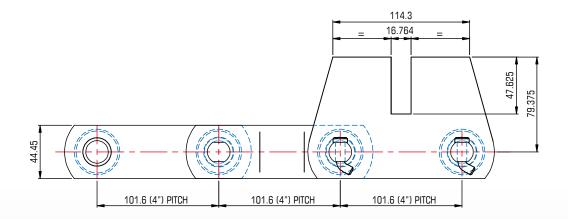


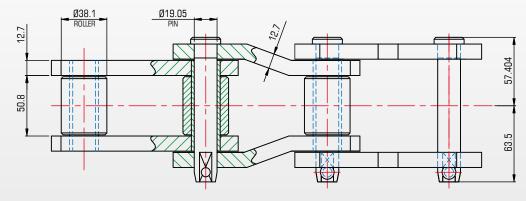
IX JKR2870/MIX3

Drag Slat Chains

John King Chains produce numerous types of conveyor and elevator chain for construction equipment and Asphalt plant manufacturers. This has become a specialist market where various types of Drag slat, Conveyor and Elevator chains can be produced to customers specific requirements. Always however John King Chains will employ superior and well proven specifications for components.

The three chains featured highlight some of the "variations on a theme" for example both Engineering Roller conveyor (JKR) and bush class chains (JKB) are employed for the same function. Periodical crank links are popular to allow odd numbered attachment spacings to occur consistency on outer links, this being a technical preference. Attachment holes can be punched round or square, the latter to accommodate square necked fixing bolts.

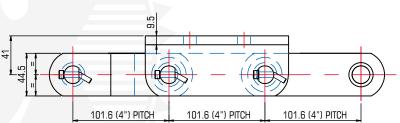


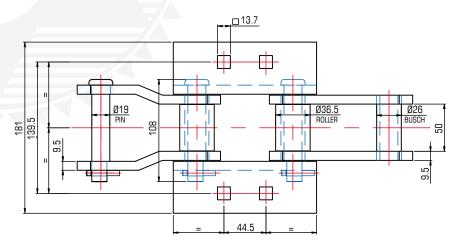


Breaking load 57,000 lbs (254 kN)



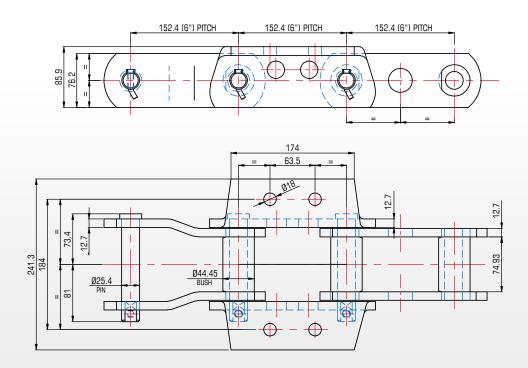
B JKR2868/K2X3/CR





Breaking load 57,000 lbs (253 kN)

B JKB856/K24X3

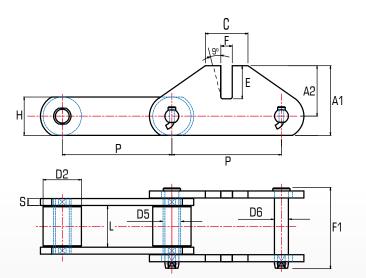


Breaking load 145,000 lbs (645 kN)



IKR Series with M Style attachments

The preference in most North American Asphalt production equipment is for material to be premixed and then transported in its finished condition with inclined drag slats and delivered to heated storage bins for ongoing distribution. The Engineering Roller Drag chains (JKR) highlighted are the most commonly encountered types, with M attachments. In either single or double strand format, the flights are generally welded into position. As they are in direct contact with the material they are normally produced from a pre-hardened steel plate. In the case of twin strand operation it is recommended chains are requested in calibrated and matched strands to ensure the strands operate in unison.



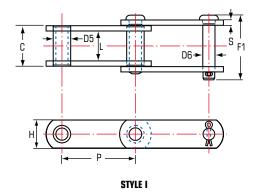
JKR Series with M Style attachments													
Chain	Pitch	Roller Diameter	Bush Diameter	Pin Diameter	Between Sidebars	Sidebar Height	Sidebar Thickness	С	A1	A2	E	Overall Width	Breaking Load
Number	Р	D2	D5	D6	L	Н	S					F1	Loda
		inches											lbs
JKR2102	4.00	1.50	0.625	0.500	2.20	1.50	0.375	4.015	4.00	3.25	2.37	0.56	56,500
JKR2860	6.00	2.75	1.000	0.625	3.00	2.50	0.500	6.750	6.00	3.62	2.75	0.81	143,000
JKR2866	6.00	2.75	1.000	1.000	3.00	2.75	5.000	3.062	5.00	3.62	2.37	0.81	149,000

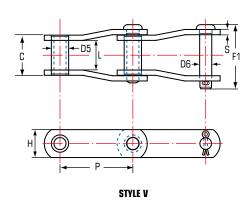


American Standard without Rollers ANSI BS29-12

The smooth and stable flow of material through a process depends on the performance of the conveyor chain installed within the equipment. Bush class chains or steel knuckle chains (JKB) are of the same construction as roller conveyor chains (JKR), but with the roller excluded. This series, with a reduced number of components, has proved to be particularly successful in high duty, high abrasion applications where lubrication is not possible. For many years KING steel bush chains have been proving performance in hotstone elevators.

Our own preference is for single strand high duty centrifugal discharge elevators. Experience has seen improved performance with a central chain system. Twin strand, although commonplace, does demand extra considerations on material infeed position, equilibrium in chain loading and strand matching accuracy.

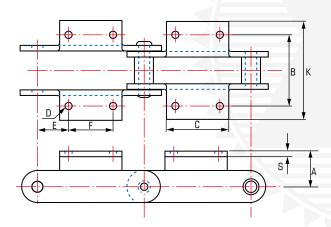




American Standard – Engineered Steel – without Rollers ANSI BS29-12

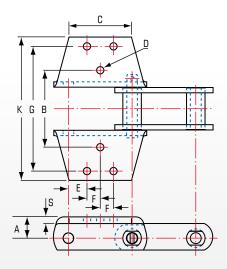
	Pitch	Bush Diameter	Bush Length	Pin Diameter	Between Sidebars	Sidebar Height	Sidebar Thickness	Overall Width	Breaking Load	Weight
Chain Number	Р	D5	С	D6	L	н	S	F1		-
				inc	hes				lbs	lbs/ft
JKBSS188	2.609	0.88	1.57	0.5	1.06	1.13	0.25	2.69	23,000	3.80
JKBSS102B	4.000	1.00	2.89	0.63	2.13	1.50	0.38	4.37	36,000	6.90
JKB110	6.000	1.25	2.89	0.63	2.13	1.50	0.38	4.37	36,000	6.30
JKB844	6.000	1.19	3.50	0.75	2.50	2.00	0.50	5.31	52,000	10.40
JKB856	6.000	1.75	4.00	1.00	3.00	2.50	0.50	5.99	82,000	16.50
JKB956	6.000	1.75	4.00	1.00	2.95	3.00	0.50	5.99	97,000	16.60
JKB857	6.000	1.75	4.00	1.00	3.00	3.25	0.50	5.99	91,000	21.00
JKB958	6.000	2.00	4.13	1.13	3.00	3.25	0.56	6.07	97,000	21.00
JKB859	6.000	2.38	5.00	1.25	3.75	4.00	0.63	7.62	155,000	34.00
JKB6150	6.050	1.75	4.35	1.00	3.34	2.50	0.50	6.36	124,000	17.20
JKB864	6.050	2.38	5.00	1.25	3.75	4.00	0.63	7.62	155,000	33.00
JKB984	7.000	2.50	5.00	1.38	3.75	4.00	0.62	7.35	155,000	33.00

American Standard without Rollers with K2 attachment



American S	American Standard without Rollers with K2 attachment													
	В		D		к	A	C	c						
Chain Number	В	E	Bolt Hole	Г	ĸ	A	C	3						
		inches												
SS188	4.19	0.67	0.34	1.25	5.13	0.81	2.13	0.25						
SS131	4.13	0.78	0.56	1.50	5.59	1.13	6.91	0.50						
SS102B	5.31	1.13	0.41	1.75	6.94	1.13	4.25	0.38						
JKB110	5.31	2.13	0.41	1.75	6.44	1.13	6.91	0.50						
JKB5239	6.25	2.16	0.62	2.35	8.25	1.50	4.33	0.37						

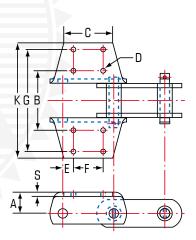
American Standard without Rollers with K35 attachment



American	Standard v	vithout Roll	lers with K	35 attachm	ent	
	D	F	D	F	K	6

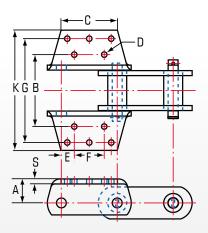
Chain Number	В	E	D Bolt Hole	F	К	А	G	С	S
					inches				
JKB856	7.25	1.75	0.69	1.25	13.56	1.88	11.75	5.84	0.50

American Standard without Rollers with K44 attachment



American	American Standard without Rollers with K44 attachment													
Chain Number	В	E	D Bolt Hole Dia	F	К	A	G	С	S	Weight				
	inches													
JKB857	7.00	1.25	0.56	3.50	14.00	2.50	12.00	5.50	0.50	38.00				
JKB859	9.00	1.63	0.69	2.75	15.00	3.00	13.00	5.92	0.63	39.00				
JKB958	7.00	1.25	0.56	3.50	13.68	2.50	12.00	5.75	0.50	40.00				

American Standard without Rollers with K443 attachment



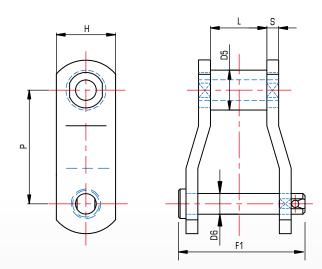
American Standard without Rollers with K443 attachment												
Chain Number	В	E	D Bolt Hole Dia	F	к	A	G	С	S	Weight		
Nomber	inches											
JKB984	9.00	1.62	0.69	3.75	15.00	3.00	13.00	7.00	0.63	55.00		
JKB864	9.00	1.63	0.69	3.75	14.88	3.00	13.00	7.32	0.62	58.00		



🕦 Maxi Chains – King Works Standard

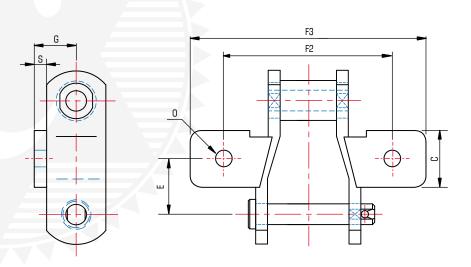
This John Kings works standard includes a range of crank link steel bush chains that offer maximum versatility either in conveying or elevating applications. This series was originally developed to offer an all steel direct replacement for the Cast Bush and Pintle chains. Materials employed, with case hardened alloy steel pin and bush ensure reliable performance.

The crank link construction is a more convenient and effective style. One link can be added or removed if chain length is altered. Any variety of attachments can be fabricated and welded to the base chain. This is generally K style but other styles of attachments can also be provided.



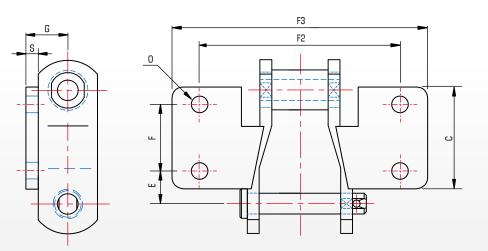
Maxi Chai	Maxi Chains – King Works Standard													
	Pitch	Over-all	Pin Diameter	Bushing	Between	Side	bars	Average						
Chain	FIICH	Pin & Cotter	Fin Diameier	Outside Dia.	Sidebars	Thickness	Height	Ultimate	Average Weight					
Number	Р	F1	D6	D5	L	S	Н	Strength	weigin					
				mm				kg	kg/m					
MX603	76.2	88.0	14	22.5	38	8	40	20,000	11.02					
MX503	76.7	86.0	14	22.7	38	8	40	20,000	9.25					
MX604	101.6	79.0	16	25.0	57	10	50	27,500	14.92					
MX704	101.6	70.0	16	30.0	50	10	50	35,000	22.63					
MX504	103.7	147.6	16	33.0	50	10	50	27,500	12.66					
MX600	153.4	110.0	18	28.6	50	10	50	30,000	15.51					
MX500	153.5	92.0	16	38.0	50	10	50	25,000	8.95					

Maxi Series 5 K1 attachments



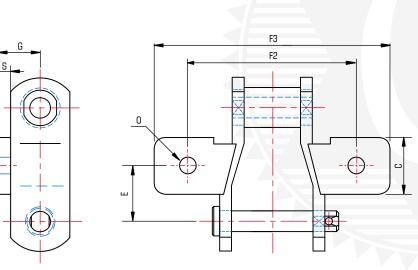
Maxi Series 5	Maxi Series 5 K1 attachments												
Chain Number	F2	F3	E	G	0	С	S						
	mm												
MX503	112.8	144.5	38.1	28.0	7.9	38.0	8.00						
MX504	152.4	184.0	50.8	24.0	12.7	42.0	9.65						

Maxi Series 5 K2 attachments



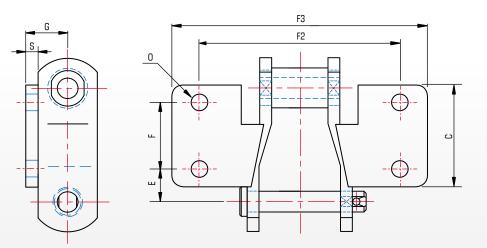
Maxi Series 5 K2 attachments												
Chain Number	F2	F3	E	G	0	С	F	S				
Chain Number	mm											
MX503	136.7	178.0	22.35	28.00	9.5	70.0	43.0	8.00				
MX504	147.6	171.0	33.30	22.35	12.7	63.5	38.1	9.65				

Maxi Series 6 K1 attachments



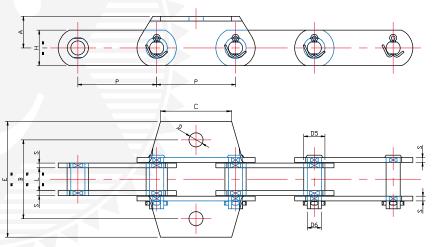
Maxi Series 6	Maxi Series 6 K1 attachments												
Chain Number	F2	F3	E	G	0	С	S						
	mm												
MX603	114.3	140.0	36.6	38.0	12.0	38.0	8.0						
MX604	144.5	178.0	50.8	60.0	13.0	60.0	10.0						
MX600	152.4	190.0	76.2	45.0	13.0	45.0	10.0						

Maxi Series 6 K2 attachments A Style



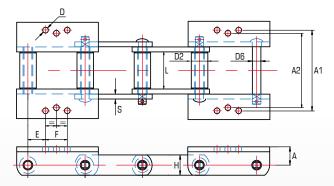
	F2	F3	E	G	0	С	F	S				
Chain Number	mm											
MX603	149.35	178.0	20.5	70.0	11.0	70.0	44.5	8.0				
MX604	146.00	175.0	27.0	70.0	12.7	70.0	38.1	10.0				

() BH Metric Series Hot Elevator Chain



BH Met	BH Metric Series Hot Elevator Chain													
Chain	Р	L	D5	D6	Н	S	А	В	С	D	E	UTS		
Number														
BH3808	100	29	27	18	45	6	40	100	90	18	150	180		
BH5041	100	38	30	18	50	8	45	125	90	18	160	200		
BH5029	100	43	30	20	60	8	45	160	90	18	160	250		
BH5042	100	46	40	25	65	10	45	160	90	18	210	420		

() JKR Series with K2/K3 Style attachments



JKR Series with K2/K3 Style attachments

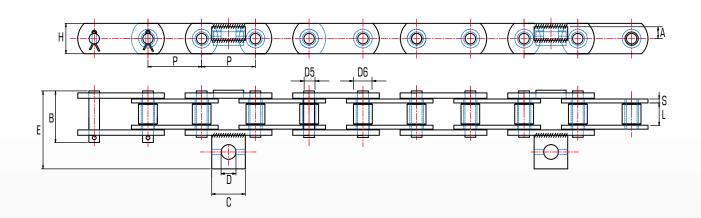
Chain	Р	L	D2	D6	н	S	А	A1	A2	D	E	F	Breaking load	Attachment
Number	inches													reference
JKR 2102	4.00	2.20	1.500	0.625	1.50	0.375	1.12	5.310	-	0.500	1.125	1.175	56,500	K-2
JKR 3945	4.00	2.00	1.250	0.625	1.50	0.320	1.37	5.320	-	0.500	1.125	1.750	45,000	K-2
JKR 3945	4.00	2.00	1.250	0.625	1.50	0.320	1.37	5.312	4.75	0.375	1.125	1.750	45,000	K-3
JKR 3952	4.00	2.00	1.430	0.750	1.75	0.375	1.62	5.312	-	0.375	1.125	1.750	62,000	K-2
JKR 3952	4.00	2.00	1.430	0.750	1.75	0.375	1.62	5.250	-	0.375	1.032	1.937	62,000	K-2
JKR 3952	4.00	2.00	1.430	0.750	1.75	0.375	1.62	5.312	4.75	0.375	1.125	1.750	62,000	K-3
JKR 3952	4.00	2.00	1.430	0.750	1.75	0.375	1.62	5.050	-	0.500sq	1.125	1.750	62,000	K-2
JKR 3950	4.03	2.80	1.375	0.625	1.50	0.320	1.37	5.312	4.75	0.375	1.140	1.750	45,000	K-3
JKR 2268	4.08	2.00	1.625	0.750	2.25	0.375	2.00	5.250	-	0.500	1.160	1.750	100,000	K-2
JKR 4604	4.60	2.00	1.375	0.620	1.50	0.320	1.37	5.312	4.75	0.375	1.430	1.750	45,000	K-3
JKR 2856	6.00	3.00	2.750	1.000	2.50	0.500	1.87	7.250	-	0.625	1.750	2.500	143,000	K-2
JKR 2860	6.00	3.00	2.750	1.000	2.50	0.500	1.87	7.250	4.75	0.625	1.750	2.500	143,000	K-24



Engineering Steel Paver Chains

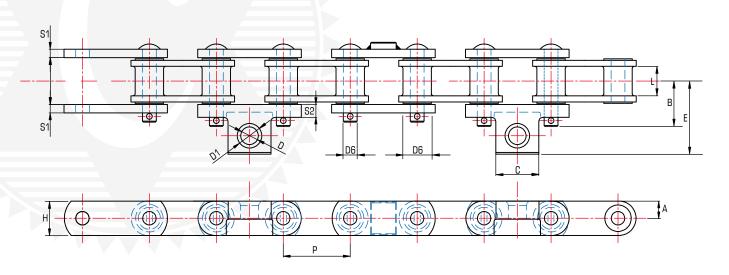
John King have extensive experience in the manufacture and application of Paver chains for use as drag bars assemblies in these road surfacing machines. The chains are used in twin strand format with the strands made common with flight bars. Used either as a single or double pair the chains are installed within the delivery hopper of the machine.

John King Chains produce paver chains as a principal series to original equipment and replacement applications. A multiplicity of chain types are encountered, but all following the same general format. Some of the more popular types encountered are highlighted in this section, but this is by no means exhaustive and for those chains required that are not detailed please contact our sales department.



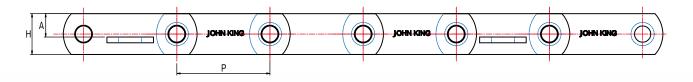
Engine	neering Steel Paver Chains													
Chain	Р	L	D5	D6	Н	S	А	В	С	D	E	Attachment position	Breaking Load	
Number		mm												
JK3266	75.00	18.50	15.00	10.00	25	4	15	32	25	13.80	41	4	90	
JK3493	80.00	25.00	20.00	15.00	35	5	20	43	40	19.80	59	4	178	

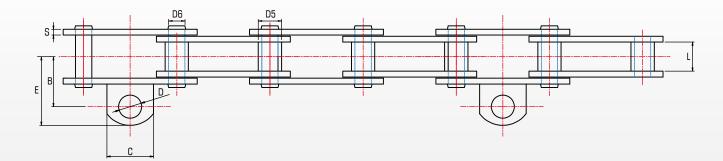




Cast C	Cast Combination Paver Chains														
Chain Number	Р	L	D5	D6	н	S1	S2	А	В	С	D	DI	E	Attachment position	Breaking Load
		mm												position	lbs
C131	78.10	29	31.80	15.88	40	10	15	20	62.60	50.00	21	29	80	4	24,000
C188	66.26	22	22.20	12.70	30	6	8	15	80.00	22.20	21	29	56	4	14,000

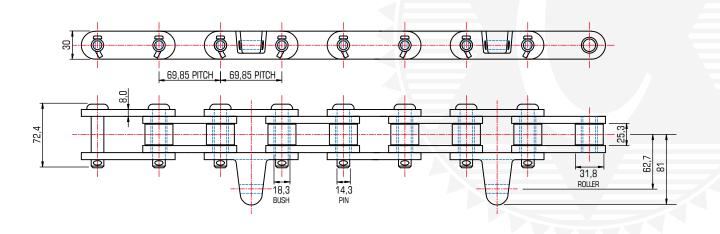
() Engineering Steel Paver Chains



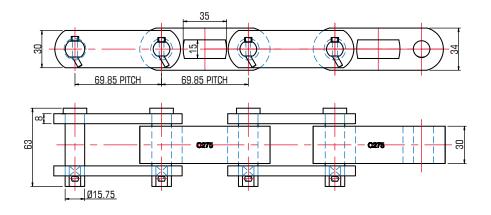


Engine	Engineering Steel Paver Chains														
Chain Number	Р	L	D5	D6	н	S	А	В	С	D	E	Attachment position	Breaking Load		
		mm													
JK3266	75.00	18.50	15.00	10.00	25	4	15	32	25	13.80	41	4	90		
JK3493	80.00	25.00	20.00	15.00	35	5	20	43	40	19.80	59	4	178		

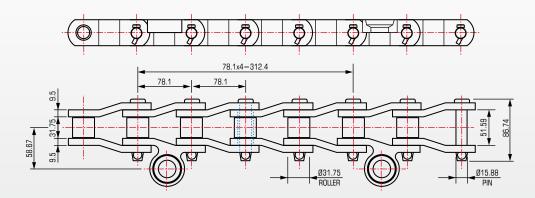
JK1594/G19X4 alternatively JK1594/G19X6



B JKC275



U JKR40SL







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